

37 C.F.R. §§ 1.821-1.825.

The following specific changes to the specification and claims are made by these amendments:

(a) The application as filed used a single SEQ ID NO to refer to both of the nucleotide sequence and the amino acid sequence for each of the first six sequences (i.e., former SEQ ID NOS:1-6). Separate sequence identification numbers now have been provided for the nucleotide sequences and the corresponding amino acid sequences. For example, by these amendments, the nucleotide sequence for former SEQ ID NO:1 remains identified as SEQ ID NO:1, the amino acid sequence of former SEQ ID NO:1 is now identified as SEQ ID NO:2, the nucleotide sequence for former SEQ ID NO:2 is now identified as SEQ ID NO:3, the amino acid sequence for former SEQ ID NO:2 is now identified as SEQ ID NO:4, etc.

(b) FaNaCh, MEC-4, ASIC and MDEG sequences disclosed in Fig. 2 have been identified by SEQ ID NOS: 13, 14, 2 and 6, respectively.

(c) Primers listed on pages 15 and 16 have been identified by SEQ ID NOS: 15-18.

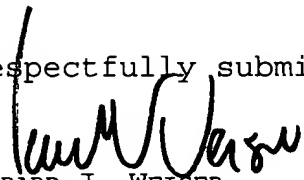
Accordingly, no new matter has been added.

Applicants respectfully submit that upon entry of the foregoing amendments, the application will conform to the

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requirements of 37 CFR §§ 1.821-1.825, and thus, it is in condition for examination.

Respectfully submitted,



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Enclosures:

Replacement Sequence Listing - pages 1-34

Sequence Listing on diskette

Statement To Support Filing and Submission In Accordance With
37 C.F.R. §§ 1.821-1.825

Notice to File Missing Parts of Application

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Certification Under 37 CFR 1.8

Date of Deposit 1-29-99

I hereby certify that this paper or fee is being deposited with the United States Postal Service with sufficient postage as first class mail under 37 CFR 1.8 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Kim Sheehan
(Name of person mailing)

Kim Sheehan
(Signature of person mailing)